

1.2m Ka Rx/Tx Class I Antenna System
Perfectly designed for economical deployment of VSAT system



Product Specifications

- Fine azimuth and elevation adjustment features
- ISO 9001:2008 Certificate of Registration
- Meets or exceeds regulatory agency requirements
- Anatel Type Approved No. 06645-17-06307

1.2m Ka RxTx Class I Antenna System Model# 900-VS1215-001

Specifications

RF Performance

Effective Aperture	1.2m (48 in)
Operating Frequency	Tx 28.30-30.00 GHz
	Rx 18.10-20.20 GHz
Polarization	Circular RH or LH
Gain (± 0.3 dB)	Tx 49.0 dBi @ 29.00 GHz
	Rx 45.6 dBi @ 19.20 GHz
3dB Beamwidth	Tx 0.56° @ 29.00 GHz
	Rx 0.83° @ 19.20 GHz
Sidelobe Envelope (Tx, Co-Pol dBi)	
	$100^\circ / D < \Theta < 20^\circ$ 29 - 25 Log Θ dBi
	$20^\circ < \Theta < 26.3^\circ$ -3.5 dBi
	$26.3^\circ < \Theta < 48^\circ$ 32-25 Log Θ dBi
	$48^\circ < \Theta < 180^\circ$ -10 dBi (averaged)
Antenna Cross-Polarization (within 1 dB B/W)	
	Tx 25 dB
	Rx 22 dB
Antenna Noise Temperature*	
	10° EI 90K
	20° EI 53K
	30° EI 51K
VSWR	1.3:1 Max
Isolation (Port to Port)	Tx 90dB
	Rx 80dB

Mechanical Performance

Antenna Optics	One-Piece Offset Feed Prime Focus
Mount Type	Elevation over Azimuth
Elevation Adjustment Range	5° - 90° Continuous Fine
Adjustment Azimuth Adjustment Range	360° Continuous, $\pm 5^\circ$ Fine
Mast Pipe Interface	73.2 mm (2.88 in) or 76 mm (3.00 in) Diameter O.D.
Wind Loading	
Operational	56 km/h (35 mph)
Survival	201 km/h (125 mph)
Temperature	-50°C to 80°C
Humidity	0 to 100% (Condensing)
Atmosphere	Standard Hardware Meets 720 Hour
	Salt Spray Test Requirements (ASTM B-117)
Solar Radiation	360 BTU/h/ft ²
Shock and Vibration	As Encountered During Shipping and Handling